# RÑ95059D1 Preliminary Amendment

15 % (mole).

size is between 10 and 1000 nanometers, wherein the particles have an accessible acidic functional group content, being the acidic functional groups, which are at most 5 nanometers from the surface of the particle continuous aqueous phase interface, of between 0.2 and 1.2 milliequivalents/gram of solid matter, and an accessible alcoholic functional group content, being the hydroxyl functional groups, which are at most 10 nanometers from the surface of the particle-continuous aqueous phase interface, of between 0.3 and 1.5 milliequivalents/gram, and wherein said polymer or copolymer/particles are originated from a copolymerization between at least one free acid monomer containing an activated ethylenic bond and at least one free alcohol, and, wherein a unit originating from said free alcohol monomer contains an activated ethylenic functional group which has a content of between 3 and

- 31. (New) A composition according to claim 30, wherein the accessible acidic functional group is a carboxylic group.
- 32. (New) A composition according to claim 30, wherein the particle solid content of the latex is between 10 and 80 % on a mass basis.
- 33. (New) A composition according to claim 32, wherein the content of the particles is between 10 and 60 % on a mass basis.
- 34. (New) A composition according to claim 30, wherein the acidic functional groups of the particles of the population A are weak acidic functional groups whose pKa is at least 2.
- 35. (New) A composition according to claim 34, wherein  $pK_a$  is 3.

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- 36. (New) A composition according to claim 30, wherein the population A has a dispersity of ([d90 d10]/d90) between 0 and 1/4.
- 37. (New) A composition according to claim 30, wherein the average molecular mass by weight of the polymer or copolymer is between  $5 \times 10^4$  and  $5 \times 10^6$ .
- 38. (New) A composition according to claim 30, wherein the said free alcohol monomer containing an activated ethylenic functional group is a diol monoesterified with an alpha-ethylenic acid.
- 39. (New) A composition according to claim 30, wherein the content is between 4 and 10 % (mole).
- 40. (New) A composition according to claim 38, wherein the said diol is an  $\omega,\omega'$ -diol.
- 41. (New) A composition according to claim 30, wherein the said free acid monomer is acrylic acid or one of its salts.
- 42. (New) A composition according to claim 30, wherein the unit originating from the free carboxylic acid monomer has a content of between 2 and 10 % (mole).
- 43. (New) A composition according to claim 30, wherein the particles are originated from a core covered by surface polymerization of said polymer or copolymer.
- (New) A composition according to claim 30, further comprising up to 2 % by weight of an emulsifier.

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- 45. (New) A composition according to claim 30, further comprising a population B of particles bearing isocyanate functional group(s).
- 46. (New) A composition according to claim 45, wherein the said isocyanate functional groups are masked.
- 47. (New) A composition according to claim 45, wherein the isocyanate functional group content is between 0.5 and 1 milliequivalent/gram of particles of population B.
- 48. (New) A composition according to claim 47, wherein the mass ratio of the populations A and B is such that the ratio of the alcohol functional groups to the isocyanate functional groups is between 0.1 and 10.
- 49. (New) A composition according to claim 48, wherein the ratio of the alcohol functional groups to the isogyanate functional groups is between 0.3 and 5.
- 50. (New) A composition according to claim 45, wherein the population B constitutes an emulsion with the aqueous phase.
- 51. (New) A composition according to claim 45, wherein the population B constitutes a latex with the aqueous phase.
- 52. (New) A composition according to claim 45, wherein the populations A and B coincide to constitute a population of particles containing free carboxylic functional groups, free alcohol functional groups and isocyanate functional groups at the same time.
- 53. (New) A composition according to claim 52, wherein the ratio (equivalent) of the isocyanate to the alcohol functional groups is between 0.1 and 10.

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- 54. (New) A composition according to claim 52, wherein the ratio, (equivalent), of the alcohol functional groups to the carboxylic functional groups is between 0.2 and
- 55. (New) A composition according to claim 52, wherein the ratio (equivalent), of the isocyanate to the carboxylic functional groups, is between 0.1 and 10.
- (New) A composition according to claim 30, further comprising pigments. 56.
- 57. (New) A paint or a varnish comprising a composition according to claim 30.
- 58. (New) A process for the preparation of a coating comprising the step of application onto a support of a composition according to claim 30.
- 59. (New) A process according to claim 58, wherein the said composition contains at least one isocyanate functional group and further comprising a step of curing at a temperature of between 120 and 200°C.
- 60. (New) A composition according to claim 40, wherein the said diol is 1,3propanediol or glycol.
- (New) A composition according to claim 30, further comprising isocyanates. 61.
- (New) A composition according to claim 61, wherein the isocyanates are 62. soluble or insoluble in the aqueous phase.
- **6**3. (New) A composition according to claim 44, comprising up to 1 % by weight of said emul



It is asserted that these amendments do not add new matter and are supported by the specification and claims as originally filed. Entry of these amendments is respectfully requested.

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